

worked out for India.”. *M. micrura* (I) has been extensively recorded in other Indian habitats. In case of the two varieties of *M. micrura*, the supraocular depression is present only in the larger variety. *Diaphanosoma excisum* occurs under two varieties, namely *D. excisum* Sars 1885 (I) and *D. excisum* Sars var. Stingling Jenkin 1934 (II). These two varieties can be distinguished on the basis of length of antenna and serration

on the carapace border. Biswas (1971) and Mathew (1977) have reported the Indian occurrence of *D. excisum* Sars 1885 as variety (I). The second variety, *D. excisum* Sars var. Stingling Jenkin 1934 (II) was reported by Biswas (1971). All the identified Cladocerans occurred both in the reservoir and in the nursery pond, except *Moina dubia* and *Macrothrix laticornis*, which occurred only in the nursery pond.

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## 22. AEGINETIA INDICA ROXB.: A NEW NON-PHOTOSYNTHETIC ANGIOSPERM FOR JAMMU AND KASHMIR FLORA<sup>1</sup>

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During a floristic exploration in the foothills of Jammu in September 2003, the authors collected a specimen of a broomrape with underground parts, growing in a moist and shady habitat, near village Thain of Dayalla Chak, Kathua at an altitude of 600 m above msl. A large population of the species in association with other grasses and *Adiantum* species has been found in this area. The collected specimen has been deposited in the Herbarium, Department of Botany, University of Jammu (Regn. No. SK-HC 1/8248). After a detailed study of the available literature and preserved herbarium collection, the broomrape was identified as *Aeginetia* Roxb. (Fig. 1) of Orobanchaceae – a dicot family.

Perusal of existing literature and collected herbarium sheets implied clearly that this species had not been recorded earlier in Jammu and Kashmir. However, the species has been described by Kehimkar (2000) as a Himalayan species existing between 600-1100 m above msl. A detailed description of this new record to the flora of Jammu and Kashmir is given below:

### *Aeginetia indica* Roxb.

*Aeginetia japonica* Siebold & Zuccarini; *Orobanche*

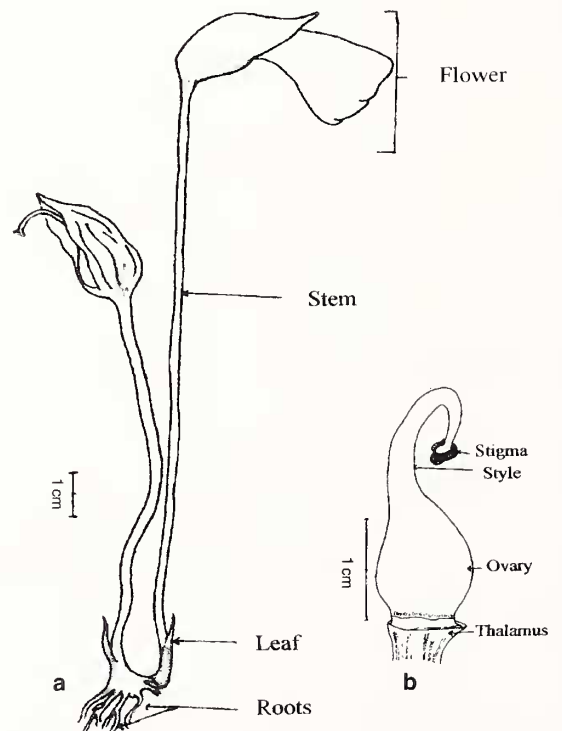


Fig. 1: *Aeginetia indica*: a. Habit; b. Gynoecium

*aeginetia* Linn.; *Phelipaea indica* (Linn.) Sprengel ex Steudel.

Root slightly fleshy. Stems (10-25 cm) branched from near base. Leaves small reddish, ovate, 6-9 x 2-3 mm near the stem base, glabrous. Inflorescence solitary terminal, purplish-red (non-green); flower fimbriate, ebracteate, ebracteolate, 1.25-5 cm long. Calyx acuminate, spathe like, pink. Corolla purplish-red, tubular-campanulate, 1.25-5 cm, long, tube

slightly curved. Ovary 1-locular, parietal placentas four. Style 1-1.5 cm. Capsule conical 1-2 cm. Seeds numerous 0.03-0.04 mm.

**Fl. & Fr.:** May-September.

**Distribution:** Bangladesh, Bhutan, Cambodia, Indonesia, Japan, Malaysia, Myanmar, Nepal, Philippines, Sri Lanka, India: western Himalaya in Kumaon to Nepal, Assam and Khasia Hills.

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23. *DIOSPYROS NIGRESCENS* (DALZ.) SALDANHA (EBENACEAE):  
AN ADDITION TO THE FLORA OF TAMIL NADU<sup>1</sup>

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During the floristic survey of the Dindigul district of Tamil Nadu, we came across an interesting species of *Diospyros* in the Sirumalai hills. This species was examined critically, and was identified as *Diospyros nigrescens*. It has not been reported from Tamil Nadu so far. The present study extends its distribution to Tamil Nadu.

*Diospyros nigrescens* (Dalz.) Saldanha in Saldanha & Nicolson, Fl. Hassan. 197. 1976. *Diospyros angustifolia* (Miq.) Kostermans, Ceylon J. Sci. 12: 106. 1977. *Maba nigrescens* Dalz. in Dalz. & Gibson, Bombay Fl. 142. 1861; Cooke, Fl. Bombay 2: 97 (157). 1904; Gamble, Fl. Presi. Madras. 768 (540). 1921.

Trees, branches fulvous-pubescent. Leaf blade elliptic-lanceolate, acute at apex, cuneate at base, with reticulation slightly raised beneath, fulvous hairy on midrib beneath, to 8 x 3 cm. Inflorescence 1-3 flowered, axillary subsessile clusters. Flowers 3-4-merous. Calyx lobe ovate, acute, hairy. Corolla white, hairy. Stamens 6-9, pistillode rudimentary, staminodes 0. Ovary 3-celled, hairy. Stigmas 3. Fruit ellipsoid, clothed when young with fulvous silky hairs, fruiting calyx cup shaped (Fig. 1).

**Fl. & Fr.:** February-September.

**Ecology:** Sporadically occur in evergreen forests and stream banks on the Ghats.

**Distribution:** Confined to the Bombay Presidency in Konkan and Kanara (Cooke 1908), the Sirumalai hills of Tamil Nadu.

**Specimen examined:** The Sirumalai hills (Eastern Ghats), Dindigul district, Tamil Nadu. Karuppusamy and Rajasekaran, 1058 (SKU), Karuppusamy, 1131 (SKU).

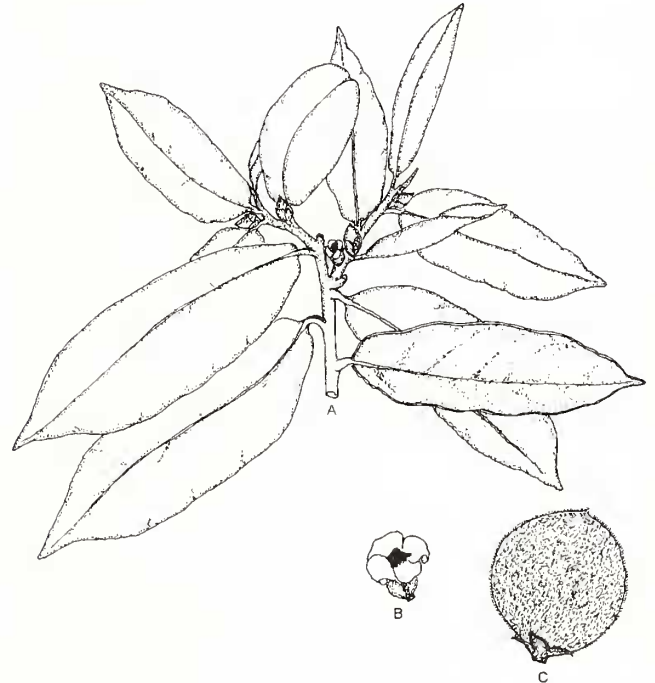


Fig. 1: *Diospyros nigrescens* (Dalz.) Saldanha: A. Flowering twig, B. Flower, C. Fruit

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